STIER

STIER
Lab Washing Expert



L3000D
LABORATORY GLASSWARE WASHER

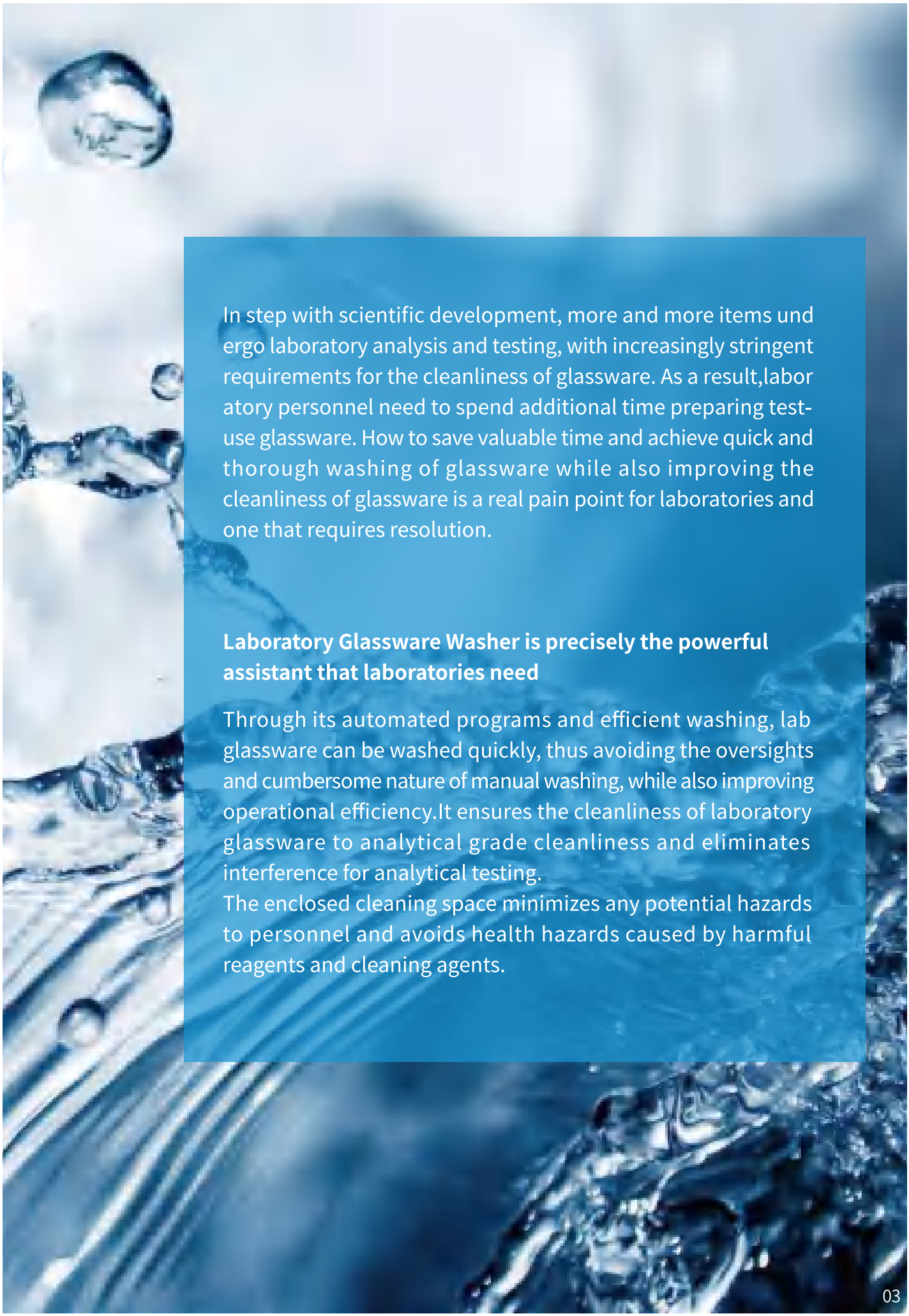


STIER
Lab Washing Expert

STIER excels in manufacturing automated cleaning instruments and devices, delivering expert cleaning products and services. Its portfolio includes laboratory glassware washers, washers for animal labs, and washers for medical purposes.

Dedicated to offering specialized cleaning solutions for laboratories, STIER adapts cleaning basket racks to suit a wide range of client needs and compliance standards. Boasting a team of experienced engineers, STIER brings a wealth of experience in cleaning applications spanning multiple sectors, a deep grasp of regulatory frameworks, and the expertise to craft customized cleaning solutions addressing the distinct challenges of its clients.

STIER has established a wholly-owned modern factory in the Guangdong-Hong Kong-Macau Greater Bay Area of China. The Greater Bay Area is the economic center and technological innovation hub of southern China, bringing together advanced manufacturing industries from around the world.



In step with scientific development, more and more items und ergo laboratory analysis and testing, with increasingly stringent requirements for the cleanliness of glassware. As a result,labor atory personnel need to spend additional time preparing test-use glassware. How to save valuable time and achieve quick and thorough washing of glassware while also improving the cleanliness of glassware is a real pain point for laboratories and one that requires resolution.

Laboratory Glassware Washer is precisely the powerful assistant that laboratories need

Through its automated programs and efficient washing, lab glassware can be washed quickly, thus avoiding the oversights and cumbersome nature of manual washing, while also improving operational efficiency.It ensures the cleanliness of laboratory glassware to analytical grade cleanliness and eliminates interference for analytical testing.
The enclosed cleaning space minimizes any potential hazards to personnel and avoids health hazards caused by harmful reagents and cleaning agents.



L3000D
Laboratory Glassware Washer

STIER L3000D automatic laboratory glassware cleaning machine adopts a new generation of back water supply structure, which has stronger cleaning power and larger cleaning capacity. 3-layer structure, easily handles various cleaning needs. It can be easily cleaned and help the laboratory meet trace or ultra-trace cleaning requirements; it saves a lot of water and consumable expenses, helping the laboratory to reduce operating costs; it can operate stably for a long time, eliminating the trouble of frequent maintenance, and is an ideal choice for scientific workers and a great helper for researchers.

FUNCTION INTRODUCTION

01

5D Non-destructive intelligent cleaning

Optimized design comprising power, temperature, drying, water quality, and the cleaning solution

Does not damage glassware

02

Hot air drying

Semiconductor-guided drying system

No pollutant precipitation

03

Intelligent water softener

Softens tap water

Direct use of tap water for cleaning

Save pure water usage

04

Patented condenser

Avoid venting of vapors into the room

No need to connect to the ven–tilation system

05

Peristaltic pump

Avoid crystallization of the cleaning solution inside

Neoprene tube, acid and alkali resistant

No need to replace

06

Wide selection of basket racks

Provide the largest variety of rack options

Adaptable to different glassware

Customizable basket racks

FUNCTION PARSING



Back water supply structure

A new generation of water supply structures

Shorter path

Stronger cleaning power



Large capacity

196 pipettes

192 volumetric flasks

528 auto sample vials



Exceptional cleaning results

Higher levels of cleanliness

Suitable for all types of laboratories

Suitable for LC, GC, LCMSMS, and other glassware cleaning



Flexible basket rack combination

Upper and lower layers, 2 basket racks per layer

Flexible combinations

Simultaneous washing of different types of glassware



Individually adjustable racks

Each rack can be adjusted in height independently

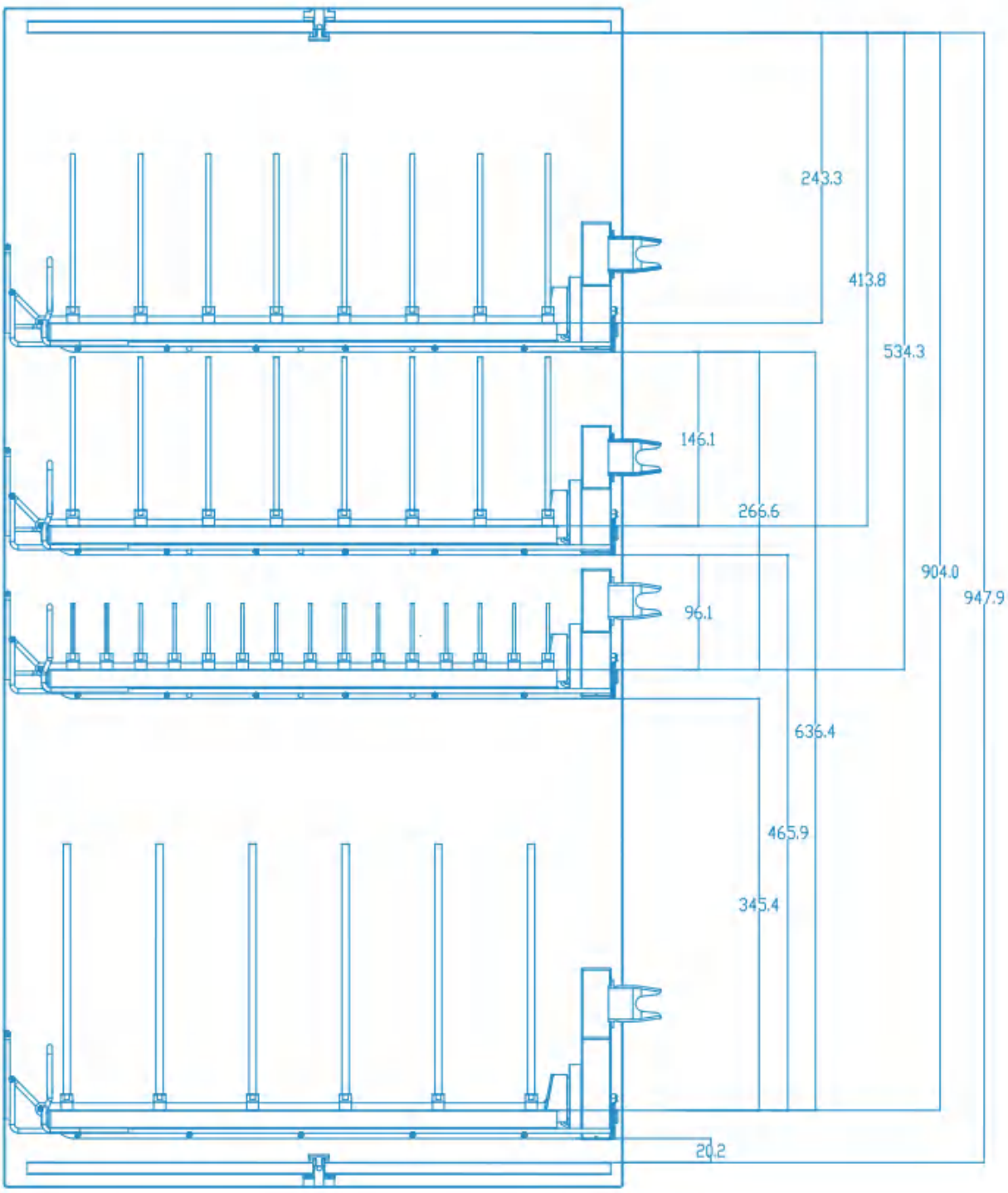
Different racks are used for different glassware

Improved cleaning

L3000D	
External dimensions [mm]	W680*D780*H1690
Internal dimensions [mm]	W542*D524*H1054
Drying method	Hot air drying
Power supply	3N AC 400 V 50 Hz / AC 230 V 50 Hz
Rated power [kW]	11 / 7
Heating power [kW]	9 / 5
Cleaning pump power [kW]	1.6
Drying power [kW]	3.2
Water softener	Built in
Steam condenser	Built in
Liquid detergent distribution pumps	2
Fixed programs	20
Customizable programs	9
Noise [dBA]	⩽70
Weight [kg]	150

* More optional items

Inner Chamber Size

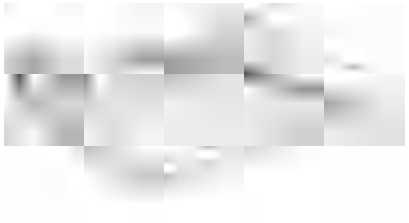


Basket Racks

Why do we need different basket racks?

1. Center the glassware
2. Maintain the right distance between the bottom of the glassware and the nozzle
3. Easily accessible

The right basket rack is the key to washing



U100 Upper basket

Used to hold 1-2 wash modules or basket racks



L100 Lower basket

Used to hold 1-2 wash modules or basket racks



U101 Upper basket (with spray arm)

Used to hold C56, C2, C3, C4



L300 Three-tier basket

Used to hold C56, C2, C3, C4



A204A 2×4 module

(6*210 mm, stainless steel flower-shaped holder)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
8 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
8 Clamps (C60SL: 6.0 ladder clamp)



A204B 2×4 module

(6*210 mm, POM crossed support)

Suitable for volumetric flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
8 Supports (S60PC: 6.0 POM crossed support)
8 Clamps (C60ST: 6.0 triangular clamp)



A204C 2×4 module

(6*150 mm, stainless steel flower-shaped holder)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
8 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
8 Clamps (C60SL: 6.0 ladder clamp)



A204E 2×4 module

(6*150 mm, large stainless steel square holder)

Suitable for Erlenmeyer flasks, round-bottomed flasks, Schott bottles, volumetric flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
8 Holders (S60SSL: 6.0 stainless steel large square holder)
8 Clamps (C60SL: 6.0 ladder clamp)



A204X1 2×4 module

(6*210 mm, stainless steel flower-shaped holder*4 + plastic crossed support*4)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
4 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
4 Supports (S60PC: 6.0 plastic crossed support)
4 Clamps (C60SL: 6.0 ladder clamp)
4 Clamps (C60ST: 6.0 triangular clamp)



A204X3 2×4 module

(6*150 mm, stainless steel flower-shaped holder*4 + crossed support*4)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

8 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
4 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
4 Supports (S60PC: 6.0 POM crossed support)
4 Clamps (C60SL: 6.0 ladder clamp)
4 Clamps (C60ST: 6.0 triangular clamp)



A306A 3×6 module

(6*210 mm, stainless steel flower-shaped holder)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
18 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306B 3×6 module

(6*210 mm, POM crossed support)

Suitable for volumetric flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
18 Supports (S60PC: 6.0 POM crossed support)
18 Clamps (C60ST: 6.0 triangular clamp)



A306C 3×6 module

(6*150 mm, stainless steel flower-shaped holder)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
18 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306D 3×6 module

(6*150 mm, stainless steel square holder)

Suitable for Erlenmeyer flasks, round-bottomed flasks, Schott bottles, volumetric flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
18 Holders (S60SSM: 6.0 stainless steel square holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306E 3×6 module

(6*150 mm, large stainless steel square holder)

Suitable for Schott flasks, Erlenmeyer flasks, round-bottomed flasks, volumetric flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
18 Holders (S60SSL: 6.0 stainless steel large square holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306F 3×6 module

(6*210 mm, stainless steel square holder)

Suitable for long test tubes, viscometers, measuring cylinders, etc.

18 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
18 Holders (S60SSM: 6.0 stainless steel square holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306G 3×6 module

(6*210 mm, large stainless steel square holder)

Suitable for long test tubes, viscometers, measuring cylinders, etc.

18 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
18 Holders (S60SSL: 6.0 stainless steel large square holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306H 3×6 module

(6*60 mm + stainless steel large square holder)

Suitable for gas absorption bottles

18 Nozzles (N60060: Nozzle, D6 mm, H60 mm)
18 Holders (S60SSL: 6.0 stainless steel large square holder)
18 Clamps (C60SL: 6.0 ladder clamp)



A306K 3×6 module

(6*150 mm, stainless steel crossed support, for 250 ml volumetric flasks)

Suitable for volumetric flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
18 Supports (S60SC: 6.0 stainless steel crossed support)
18 Clamps (C60ST: 6.0 triangular clamp)



A306X1 3×6 module

(6*210 mm, stainless steel flower-shaped holder*9 + POM crossed support*9)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60210: Nozzle, D6 mm, H210 mm)
9 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
9 Supports (S60PC: 6.0 POM crossed support)
9 Clamps (C60SL: 6.0 ladder clamp)
9 Clamps (C60ST: 6.0 triangular clamp)



A306X2 3×6 module

(6*150 mm, stainless steel straight square holder*9 + large stainless steel straight square holder*9)

Suitable for Erlenmeyer flasks, round-bottomed flasks, Schott bottles, volumetric flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
9 Holders (S60SSM: 6.0 stainless steel square holder)
9 Holders (S60SSL: 6.0 stainless steel large square holder)
9 Clamps (C60SL: 6.0 ladder clamp)
9 Clamps (C60SL: 6.0 ladder clamp)



A306X3 3×6 module

(6*150 mm, stainless steel flower-shaped holder*9 + crossed support*9)

Suitable for volumetric flasks, Erlenmeyer flasks, round-bottomed flasks, Schott flasks, measuring cylinders, test tubes, etc.

18 Nozzles (N60150: Nozzle, D6 mm, H150 mm)
9 Holders (S60SF: 6.0 stainless steel flower-shaped holder)
9 Supports (S60PC: 6.0 POM crossed support)
9 Clamps (C60SL: 6.0 ladder clamp)
9 Clamps (C60ST: 6.0 triangular clamp)



A408A 4×8 module

(4*150 mm, stainless steel flower-shaped holder)

Suitable for volumetric flasks, measuring cylinders, tubes, etc.

32 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
32 Holders (S40SF: 4.0 stainless steel flower-shaped holder)
32 Clamps (C40SL: 4.0 ladder clamp)



A408B 4×8 module

(4*150 mm, POM crossed support)

Suitable for volumetric flasks, measuring cylinders, tubes, etc.

32 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
32 Supports (S40PC: 4.0 POM crossed support)
32 Clamps (C40ST: 4.0 triangular clamp)



A408X1 4×8 module

(4*150 mm, stainless steel flower-shaped holder*16+ POM crossed support*16)

Suitable for volumetric flasks, measuring cylinders, tubes, etc.

32 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
16 Holders (S40SF: 4.0 stainless steel flower-shaped holder)
16 Supports (S40PC: 4.0 POM crossed support)
16 Clamps (C40SL: 4.0 ladder clamp)
16 Clamps (C40ST: 4.0 triangular clamp)



A415A 4×15 module

(4*150 mm, limited POM crossed support)

Suitable for test tubes, sampler vials, volumetric flasks, etc.

60 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
60 Supports (S40PCL: 4.0 POM crossed limited support)
8 Clamps (S40PCL: 4.0 POM crossed limited support)
4 Hole supports (S40S15: 4.0, 15 hole support)



A415B 4×15 module

(4*80 mm, limited POM crossed support)

Suitable for test tubes, sampler vials, volumetric flasks, etc.

60 Nozzles (N40080: Nozzle, D4 mm, H80 mm)
60 Supports (S40PCL: 4.0 POM crossed limited support)
8 Clamps (C40ST: 4.0 triangular clamp)
4 Hole supports (S40S15: 4.0, 15 hole support)



A415D 4×15 module

(4*56 mm, limited POM crossed support)

Suitable for sampler vials, etc.

60 Nozzles (N40056: Nozzle, D4 mm, H56 mm)
60 Supports (S40PCL: 4.0 POM crossed limited support)



A415E 4×15 module

(4*150 mm, POM crossed support)

Suitable for test tubes, sampler vials, volumetric flasks, etc.

60 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
60 Supports (S40PC: 4.0 POM crossed support)
8 Clamps (C40ST: 4.0 triangular clamp)
4 Hole supports (S40S08: 4.0, 15 hole support)



A415F 4×15 module

(2.5*42 mm, plastic crossed support)

Suitable for sampler vials, etc.

60 Nozzles (N25042: Nozzle, D2.5 mm, H42 mm)
60 Supports (S25PC: 2.5 plastic crossed support)



A415X1 4×15 module

(4*150mm*30 + 4*80mm*30,4.0 limited POM crossed support*30 + 4.0 POM crossed support*30)

Suitable for test tubes, sampler vials, volumetric flasks, etc.

30 Nozzles (N40150: Nozzle, D4 mm, H150 mm)
30 Nozzles (N40080: Nozzle, D4 mm, H80 mm)
30 Supports (S40PCL: 4.0 POM crossed limited support)
30 Supports (S40PC: 4.0 POM crossed support)
8 Clamps (C40ST: 4.0 triangular clamp)
4 Hole supports (S40S08: 4.0, 15 hole support)



A615E 6×15 module

(2.5*42 mm, plastic crossed support)

Suitable for sampler vials, etc.

88 Nozzles (N25042: Nozzle, D2.5 mm, H42 mm)
88 Supports (S25PC: 2.5 plastic crossed support)



A615F 6×15 module

(6×15 module (4*56 mm, limited POM crossed support))

Suitable for sampler vials, etc.

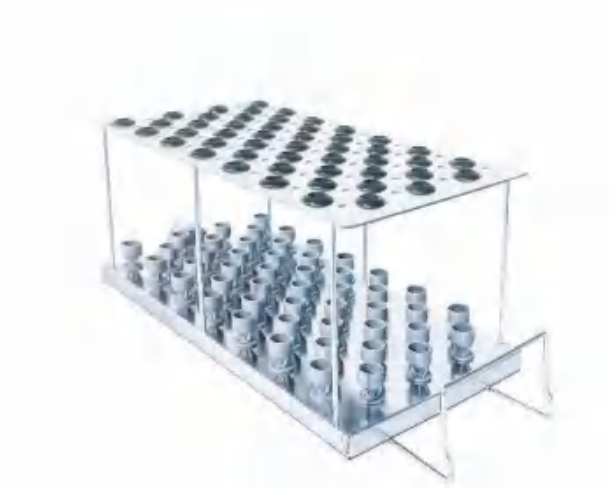
88 Nozzles (N40056: Nozzle, D4 mm, H150 mm)
88 Supports (S40PCL: 4.0 POM crossed limited support)



B021 21 Pipette module (upright)

Suitable for cleaning 1-21 pipettes

Compatible with S4000 or S8000D, can clean pipettes up to 495 mm in length
Compatible with L3000D, can clean pipettes up to 700 mm in length



B049 49 Pipette module (upright)

Suitable for cleaning 1-49 pipettes

Compatible with S4000 or S8000D, can clean pipettes up to 495 mm in length
Compatible with L3000D, can clean pipettes up to 700 mm in length



B098 98 Pipette module (upright)

Suitable for cleaning 49-98 pipettes

CCompatible with S4000 or S8000D, can clean pipettes up to 495 mm in length
Compatible with L3000D, can clean pipettes up to 700 mm in length



B022 22 Pipette module (inclined)

Suitable for cleaning 1-22 pipettes.

Compatible with S4000 or S8000D, can clean pipettes up 100 ml in volume.



4L16 4 x 4 module

Suitable for 1 L Schott flasks, 1-3 L round-bottom flasks, 1-3 L Erlenmeyer flasks, 1-5 L measuring cylinders, etc.

Lower basket included



3L9 3 x 3 module

Suitable for 2-5 L Schott flasks, 2-5 L round-bottom flasks, 1-5 L Erlenmeyer flask, 1-5 L measuring cylinders, etc.

Lower basket included



2L4 2 x 2 module

Suitable for 2-5 L Schott flasks, 2-10 L round-bottom flasks, 1-10 L Erlenmeyer flasks, 1-5 L measuring cylinders, etc.

Lower basket included



C1 Anti-displacement cap net

Prevent small glassware from being washed away



C2 Round cleaning basket rack

Suitable for lids, spoons, scissors, tweezers, etc.



C3 Rectangular cleaning basket

Suitable for lids, spoons, scissors, tweezers, etc.



C4 Rectangular cleaning basket (large, with lid)

Suitable for lids, spoons, scissors, tweezers, etc.



C56 Petri dish cleaning basket rack (56 pieces)

Suitable for culture dishes with a diameter of 90-110 mm, other specifications can be customized

Accessories



AK5000 Fully automatic machine washing agent, 5 L

Suitable for automatic laboratory glassware washer
Foam-free
Phosphoric-acid-free



AC5000 Fully automatic machine washing and neutralizing agent, 5 L

Suitable for automatic laboratory glassware washer
Non-foaming formula
Citric acid base



TK5000 Hand cleaning agent, 5 L

Suitable for manual and ultrasonic cleaning
Replaces chromic acid
Phosphoric-acid-free



1003 Softening salt

Used as a washing machine water softener
20 packs/box, 500 g/pack



1004 Pure water bucket and mobile support

For storage of pure water
100 L, 50 L optional



1005 Cooling tank

For cooling discharge water



1006 Trolley

For holding wash basket racks
With casters

N60060 Nozzle, D6 mm, H60 mm



N60150 Nozzle, D6 mm, H150 mm



N60210 Nozzle, D6 mm, H210 mm



N40056 Nozzle, D4 mm, H56 mm



N40080 Nozzle, D4 mm, H80 mm



N40150 Nozzle, D4 mm, H150 mm



N40210 Nozzle, D4 mm, H210 mm



N25042 Nozzle, D2.5 mm, H42 mm



N25210 Nozzle, D2.5 mm, H210 mm





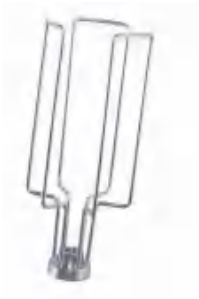
S60SF 6.0 Stainless steel flower-shaped holder

Suitable for nozzles with a diameter of 6.0 mm



S40SF 4.0 Stainless steel flower-shaped holder

Suitable for nozzles with a diameter of 4.0 mm



S60SSM 6.0 Stainless steel straight square holder

Suitable for nozzles with a diameter of 6.0 mm



S60SSL 6.0 Large stainless steel straight square holder

Suitable for nozzles with a diameter of 6.0 mm



S60PC 6.0 POM crossed support

Suitable for nozzles with a diameter of 6.0 mm



S40PC 4.0 POM crossed support

Suitable for nozzles with a diameter of 4.0 mm



S60SC 6.0 Stainless steel crossed support

Suitable for nozzles with a diameter of 6.0 mm



C60SL 6.0 Ladder clamp

Suitable for nozzles with a diameter of 6.0 mm



C40SL 4.0 Ladder clamp

Suitable for nozzles with a diameter of 4.0 mm



C60ST 6.0 Triangular clamp

Suitable for nozzles with a diameter of 6.0 mm



C40ST 4.0 Triangular clamp

Suitable for nozzles with a diameter of 4.0 mm

S40S15 4.0, 15-hole crossbar support

Suitable for A415A, A415E, A415X1



S40S08 4.0, 8-hole crossbar support

Suitable for A408B



2001-1

IQOQ validation protocol

2001-2

PQ validation protocol

2002

Pin printer

Cond

Conductivity monitoring

Hall

Speed monitoring

Hall

HEPA 14 filter
Suitable for S8000D, L3000D

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